



SCOTT M. MATHESON  
Governor

GORDON E. HARMSTON  
Executive Director,  
NATURAL RESOURCES

CLEON B. FEIGHT  
Director

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

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E. STEELE McINTYRE

October 1, 1980

Mr. Kenneth D. Westwood  
MIDCO, Incorporated  
P. O. Box 1448  
Provo, Utah 84601

RE: Hornet and She Mine  
**PRO ACT** 023/005  
Juab County, Utah

Dear Mr. Westwood:

At their September 26, 1980, Executive Meeting, the Board of Oil, Gas & Mining gave concurrence to the Division staff in their decision to issue tentative approval to the Hornet and She Mine.

The Division hereby issues tentative approval with the stipulation that a completed MR Form 8 be received by the Division.

The Board also approved the amount and form of surety. A copy of the surety estimate and Executive Summary are enclosed.

A condensed version of the mining and reclamation plan will now be published one time only in a local newspaper and in Salt Lake City papers to solicit public comment. If no adverse comment is received with 30 days of publication, the Division will then issue final approval. Upon receipt of the surety and final approval, mining may commence.

Thank you for your cooperation. If you have questions, please call.

Sincerely,

JAMES W. SMITH, JR.  
COORDINATOR OF MINED  
LAND DEVELOPMENT

cc: BLM

Enclosures

JWS/btm

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TO: ~~THE~~ The Board of Oil, Gas & Mining

FROM: Mary Ann Wright, Reclamation Biologist

SUBJECT: Executive Summary, Hornet & She Mine, MIDCO., INC.,  
Juab County, ACT/023/005

DATE: ~~SEP~~ September 25, 1980 ~~1980~~

The Division of Oil, Gas & Mining staff has reviewed the Hornet and She Mining and Reclamation Plan and has found it to be in accord with the requirements of the Utah Mined Land Reclamation Act. The Division staff seeks the Board's concurrence for the approval of this plan. Approval for the amount and form of surety is also requested.

Please review the enclosed Executive Summary.

Enclosure

MAW/btm/xtm

## EXECUTIVE SUMMARY

Hornet and She Mine  
Juab County, Utah  
ACT/023/005

Commodity: The applicant proposes to mine an approximately 20-acre area for tungsten.

Location: The legal description of the proposed site is Section 28, T. 12 S., R. 18 W. The location is along Trout Creek in the foothill area of the Deep Creek Mountains. The town of Callao is approximately 25 miles NNE of the site.

Geology: The site to be mined consists of intrusive rocks in a thrust faulted area. Tungsten lenses are contained in tertiary granitoid rocks.

Soils: Soils development at the site is limited. Sandy soils provide a growing medium to a depth of several inches in a five (5) acre undisturbed area. The remaining 15 acres is disturbed from previous mining activities and contains broken mica schist and quartzite on the surface.

Hydrology: Trout Creek is a perennial stream which contains the rare Snake Valley cutthroat trout. The creek runs approximately 1/4 of a mile from the proposed site. The operations as planned should have no impact on the stream.

Any existing groundwater at the site should not be impacted since no mining will only occur to a depth of about 10 feet along the hillside.

Precipitation at the site is 10-12 inches annually.

Ecology: The total vegetative ground cover at the site, on the five-acre undisturbed portion, is approximately 15 percent. Vegetation at the site is a low shrub-grass community consisting of snakeweed, saltbush, rabbitbrush, black sage, jointfir, Mormon tea, wheatgrass and cheatgrass.

The site lies within the lower limits of deer winter range for the 62A Deep Creek deer herd unit but disturbances of the five-acre area should have little to no impact on the herd.

Biological surveys of the foothills area have identified a unique coexistence of several species of lizards.

These species will be impacted over the 20-acre site temporarily for the five-year mine life.

Land Use: The right to mine the tungsten is by unpatented mining claims on public domain. The site lies near or possibly within a BLM wilderness study area. During the 30-day comment period, a determination will be secured from BLM as to the exact location of the proposed minesite in relation to the wilderness study area.

#### Mining and Reclamation Plan

- 1) Surface trenching will be done with a track-mounted backhoe. Trenches will be dug 20 feet wide by 50 feet long by 7 feet deep in a series. The top three-four feet of overburden will be stockpiled alongside the trench.
- 2) After removal of four feet of ore from the trench, the three-four feet of overburden will be returned to the trench.
- 3) The present land contour is a side hill sloped at 15 to 30 degrees. The trenching will occur on approximately 15 acres of previously disturbed land containing trenching and drill roads. Approximately five acres of undisturbed land will be disturbed. Topsoil from this five acres will be conserved for later use in revegetation.
- 4) Upon completion of the cut and fill trenching operation, the area will have achieved the final postmining land configuration. The area will then be prepared, revegetated and monitored until 70 percent of the 15 percent vegetative cover is achieved. When a vegetative cover of 10.5 percent has been met, the bond will be released.

#### Surety Arrangements

Reclamation costs for this site were based on a total of 20 acres being disturbed over the life of the mine. An estimate of \$5,115 was calculated for this site. Utilizing a 13 percent inflation factor for a mine life of five years, the total is increased to \$9,424. The Company will attempt to secure a bond for the total figure.

# DIVISION OF OIL, GAS, AND MINING

## BOND ESTIMATE

OPERATOR: MIDCO

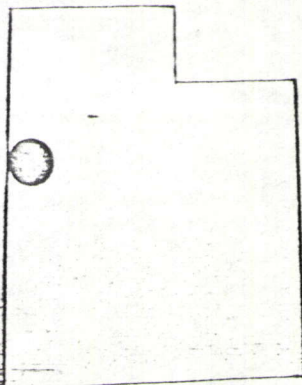
MINE NAME: HORNET AND SHE MINE

LOCATION: SEC-28 T 12 S, R 18 W 8 W

COUNTY: JUAB

DATE: 9-25-80

	Operation	Amount	Rate	Cost	
A.	CLEAN-UP				
	1. Removal of structures & equipment.				
	2. Removal of trash & debris.		lump sum	500	
	3. Leveling of ancillary facilities pads and access roads.				
B.	REGRADING & RECONTOURING				
	1. Earthwork including haulage and grading of spoils, waste and overburden.				
	2. Recontouring of highwalls and excavations.				
	3. Spreading of soil or surficial materials.				
	4. Backfilling of trenches	750 CU YDS	62/CU YD	465	
C.	STABILIZATION				
	1. Soil preparation, scarification, fertilization, etc.	20 ACRES	\$25/A	500	
	2. Seeding or planting.	20 ACRES	\$150/A	3000	
	3. Construction of terraces, water-bars, etc.				
D.	LABOR				
	1. Supervision.	40 hours	\$10/HR	400	
	2. Labor exclusive of bulldozer time.				
E.	SAFETY				
	1. Erection of fences, portal coverings, etc.				
	2. Removal or neutralization of explosive or hazardous materials.				
F.	MONITORING				
	1. Continuing or periodic monitoring, sampling & testing deemed necessary.	5 Inspections	\$50 each	250	
G.	OTHER				
	Inflation amount for 5 year mine life at 13%/year			5115	SUB
				4309	
				9424	TOTAL



HORNET AND SHE MINE

MIDCO, INC.

JUAB CO.

SEC. 28 T12S, R18W

